(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 21 May 2004 (21.05.2004)

PCT

(10) International Publication Number WO 2004/042724 A1

(51) International Patent Classification7: 27/32

G11B 20/12.

KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

(21) International Application Number:

PCT/IB2003/004560

(22) International Filing Date: 14 October 2003 (14.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02079654.6

7 November 2002 (07.11.2002)

- (71) Applicant (for all designated States except US): KONIN-KLLIKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor: and
- (75) Inventor/Applicant (for US only): FONTIJN, Wilhelmus, F., J. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: DEGUELLE, Wilhelmus, H., G.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,

MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

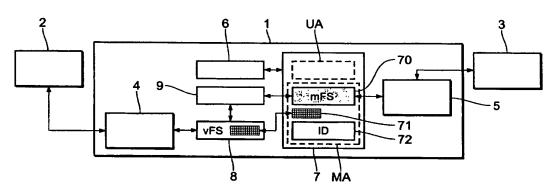
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

[Continued on next page]

(54) Title: RECORD CARRIER HAVING A MAIN FILE SYSTEM AREA AND A VIRTUAL FILE SYSTEM AREA



(57) Abstract: The present invention relates to a recordable record carrier having a user area (UA) for storing user data and a management area (MA) for storing management data. The invention further relates to a recording apparatus for recording information on such a record carrier and a corresponding recording method. In some applications it is useful to translate the main file system into an alternative virtual file system. To reduce the mount times and power consumption needed for reconstruction of the virtual file system, it is proposed that the management area (MA) comprises a main file system area (70) for storing main file system data (mFS), a virtual file system area (71) for storing virtual file system data (vFS) in a raw format, and an indicator area (72) for storing an indicator (ID) indicating whether the main system data (mFS) and the virtual file system data (vFS) are mutually consistent. Only if the indicator (ID) indicates an inconsistency does the virtual file system data (vFS) need to be reconstructed from the main file system data (mFS) when the virtual file system data (vFS) is required by an application. Otherwise, the virtual file system data (vFS) can be directly retrieved from the record carrier without reconstruction.

